

*Amendments*

*In The Specification:*

Submitted herewith is a substitute specification to replace the originally filed specification.

*In the Claims:*

Please cancel claims 1-17 and add the following new claims:

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18. (New) An isolation transformer comprising:
- a multi-layer, multi-winding primary coil fabricated by stacking coil layers formed by winding an insulated, covered, copper wire;
- a multi-layer, multi-winding secondary coil fabricated by stacking coil layers formed by winding an insulated, covered copper wire;
- a core that forms a magnetic path between the primary coil and the secondary coil; and
- a plurality of short-circuit rings made of conducting thin films sandwiched between the coil layers of at least one of the primary and secondary coils.
19. (New) The isolation transformer of claim 18, wherein the short-circuit rings are sandwiched between each of the coil layers.
20. (New) The isolation transformer of claim 18, wherein the short-circuit rings are sandwiched between selected coil layers.